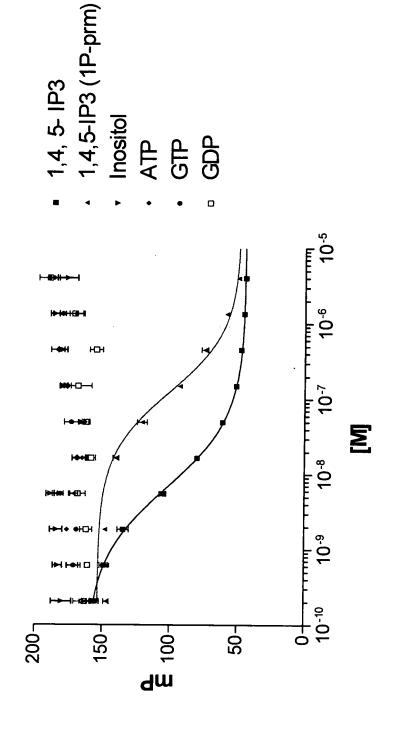
IP3 binding protein reactivity to different IP3 derivatives and other phosphate derivatives

2- position IP3 derivative is more potent than 1-position IP3



1,4,5-IP3 (1P-prm)

1,4, 5- IP3

1.2410e-007

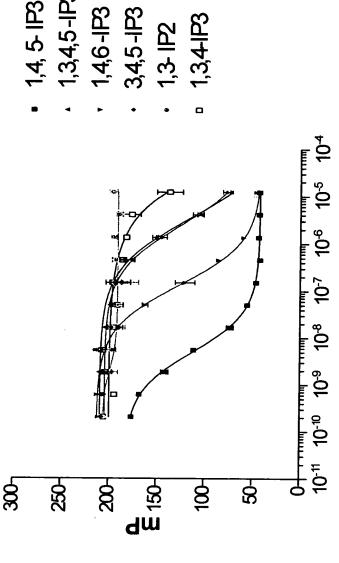
6.5740e-009

EC50

HILLSLOPE -0.9022

-1.049

higher binding affinity than other 2 position IP3 derivative shows IP3 derivatives



) = 0 'f'	1,34,5-IP3	1,4,6-IP3	3,4,5-IP3	1,3 1P2	134ID3
ı	•	•	•	•	0

	1,4, 5- IP3	P3 1,3,4,5-IP3 1,4,6-IP3		3,4,5 -IP3	1,3- IP2	1,3,4-IP3
HILLSLOI	PED.9961	-0.8314	-0.9278	-0.9015	-1.407	-0.6185
EC50	4.9560e-00	3-0093.1950e-0061.3170e-0072.3320e-0061.9820e-0090.002105	31.3170e-00	72.3320e-00	61.9820e-00	90.002105

Summary

- The binding protein used in this assay has 1000 microsomes (Refs: MikoshibaK BBRC 1999a & times greater binding activity to IP3 than endogenous IP3R in mouse cerebellar JBC, 2002
- and selectivity of 2 position IP3 derivative when compared to other IP3 derivatives or ATP/ GTP polarization (FP) showed high binding affinity Studies using Discoverx Fluorescence derivatives